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| FORM PTO-1390 (REV. 07-2005) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | EXPRESS MAIL NUMBER EV 728 110 654 US | ATTORNEY'S DOCKET NUMBER 036017/US/2 - 475396-00153 |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | | | U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/553618 <small>To be assigned</small> | |
| INTERNATIONAL APPLICATION NO. PCT/US2003/037114 | | INTERNATIONAL FILING DATE November 20, 2003 | | PRIORITY DATE CLAIMED November 20, 2002 | |
| TITLE OF INVENTION SYSTEM, PROCESS AND SOFTWARE ARRANGEMENT FOR DISEASE DETECTION USING GENOME WIDE HAPLOTYPE MAPS | | | | | |
| APPLICANT(S) FOR DO/EO/US BUD MISHRA and THOMAS ANANTHARAMAN | | | | | |
| <p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other</p> <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> had been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 <p>Items 11 to 20. below concern document(s) or information included:</p> <ol style="list-style-type: none"> 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 – 1.825 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4) 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: <p>PTO-1449 form with one reference, Petition to Revive Unintentionally Abandoned Application and Return Receipt Postcard</p> | | | | | |

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| U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.5) 10/553618 To be assigned | | INTERNATIONAL APPLICATION NO. PCT/US2003/037114 | ATTORNEY'S DOCKET NUMBER 036017/US/2 - 475396-00153 |
| 21. The following fees have been submitted: | | CALCULATIONS | PTO USE ONLY |
| <input checked="" type="checkbox"/> a) Basic national fee (37 CFR 1.492(a))..... | | \$300.00 | \$ 300 |
| 22. <input checked="" type="checkbox"/> Examination fee (37 CFR 492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)--4)..... | | \$0.00 | |
| All other situations..... | | \$200.00 | \$ 200 |
| 23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)--4) | | \$0.00 | |
| Search fee (37 CFR 1.445(a)(2) has been paid on the international application to the USPTO as an International Searching Authority..... | | \$100.00 | |
| International Search Report prepared and provided to the Office | | \$400.00 | |
| All other situations | | \$500.00 | \$ 100 |
| TOTAL OF 21, 22 and 23 = | | \$ 600 | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE |
| - 100 | /50 = | | x \$250.00 |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | \$ | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE |
| Total claims | 17 -20 = | 0 | x \$50.00 |
| Independent claims | 4 -3 = | 1 | x \$200.00 |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | + \$360.00 | \$ |
| | | TOTAL OF ABOVE CALCULATIONS = | \$800 |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½. | | \$400 | |
| | | SUBTOTAL = | \$ |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | \$ | |
| | | TOTAL NATIONAL FEE = | \$ |
| Fee for recording the enclose assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | \$ | |
| | | TOTAL FEES ENCLOSED = | \$400 |
| | | Amount to be refunded: | \$ |
| | | charged: | \$ |

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- a. A check in the amount \$400 to cover the above fees is enclosed.
- b. Please charge my Deposit Account No. 50-2054 in the amount of \$ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2054. A duplicate copy of this sheet is enclosed.
- d. Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

CUSTOMER NUMBER 30873

Dorsey & Whitney LLP
Intellectual Property Department
250 Park Avenue
New York, New York 10177


Signature

Gary Abelev, Esq.

Date October 17, 2005

Name

40,479

Registration Number